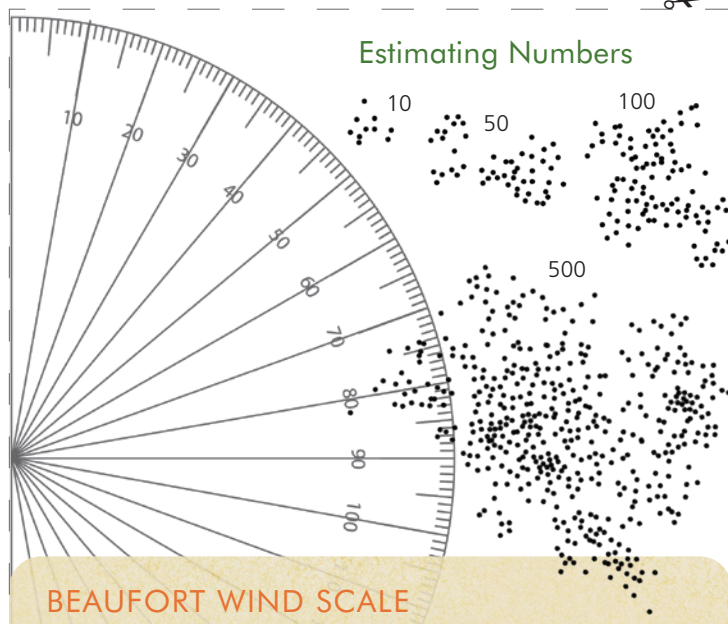
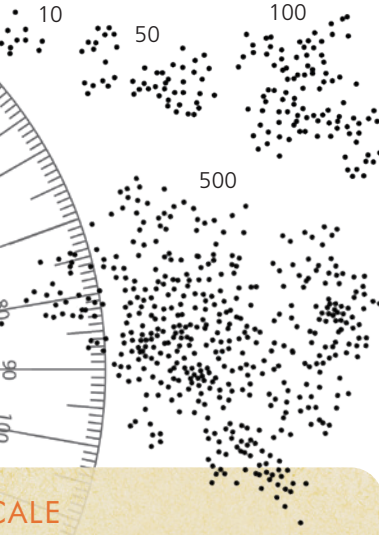


APPENDIX F: CUT-AND-PASTE QUANTIFICATION TOOL KIT

This page fits a standard composition book. Do not reduce or enlarge it (to preserve ruler scale).

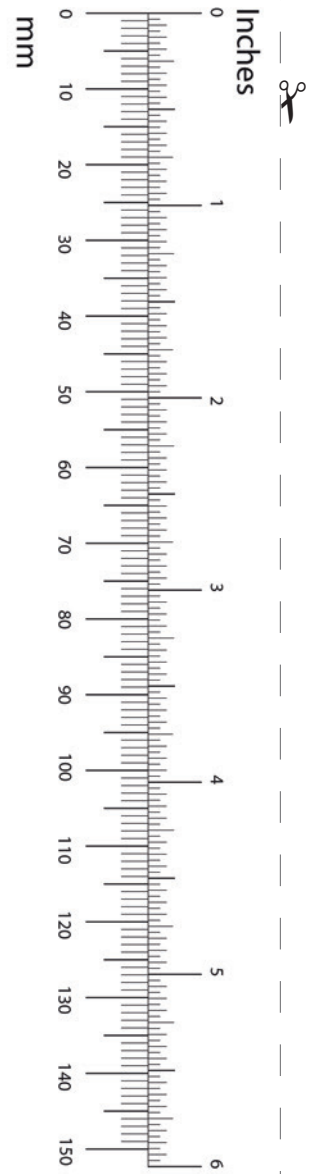
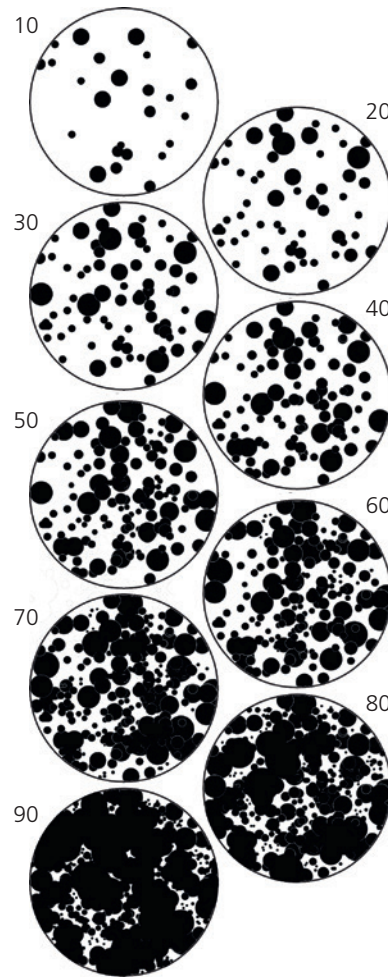


Estimating Numbers



Percent Cover

How cloudy is the sky? How much of the ground is covered in leaves? Use these circles to help you estimate.



BEAUFORT WIND SCALE

- 0** Calm <1 mph (< 1 km/h) Smoke rises vertically. Flat, glassy water.
- 1** Light air 1–3 mph (1.1–5.5 km/h) Smoke drift indicates wind direction. Leaves and wind vanes are stationary. Ripples without crests.
- 2** Light breeze 4–7 mph (5.6–11 km/h) Wind felt on face. Leaves rustle. Wind vanes begin to move. Small wavelets. Crests have glassy appearance, not breaking.
- 3** Gentle breeze 8–12 mph (12–19 km/h) Leaves and small twigs constantly moving, leaves blown into air, light flags extended. Large wavelets. Scattered whitecaps.
- 4** Moderate breeze 13–17 mph (20–28 km/h) Fairly frequent whitecaps. Dust and loose paper raised. Small branches begin to move. Small waves with breaking crests.
- 5** Fresh breeze 18–24 mph (29–38 km/h) Branches of a moderate size move. Small trees in leaf begin to sway. Moderate waves of some length. Many whitecaps. Small amounts of spray. Crested wavelets form on inland lakes and large rivers.
- 6** Strong breeze 25–30 mph (39–49 km/h) Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult. Empty plastic bins tip over. Long waves begin to form. White foam crests are very frequent. Some airborne spray is present.
- 7** High wind, moderate gale, near gale 31–38 mph (50–61 km/h) Whole trees in motion. Effort needed to walk against the wind. Sea heaps up. Some foam from breaking waves is blown into streaks along wind direction. Moderate amounts of airborne spray.
- 8** Gale 39–46 mph (62–74 km/h) Some twigs broken from trees. Cars veer on road. Walking very difficult. Moderately high waves with breaking crests forming spindrift. Well-marked streaks of foam are blown along wind direction. Considerable airborne spray.

Biometrics (Use metric or standard)

- height = _____ one step = _____
- arm span = _____ 10 meters/feet = _____ steps
- fingers-elbow = _____ 20 meters/feet = _____ steps
- shoe length = _____ 50 meters/feet = _____ steps

Degrees of Arc

